TOCRIS
a bio-techne brand

Print Date: Jan 13th 2020

Certificate of Analysis

www.tocris.com

Product Name: **Tasquinimod** **Catalog No.: 7051** **Batch No.: 1**

CAS Number: 254964-60-8

IUPAC Name: 1,2-dihydro-4-hydroxy-5-methoxy-*N*,1-dimethyl-2-oxo-*N*-[4-(trifluoromethyl)phenyl]-3-quinolinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{17}F_3N_2O_4.¼H_2O$

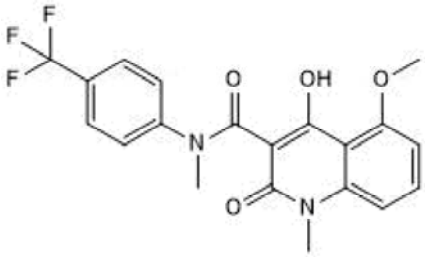
Batch Molecular Weight: 410.86

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.47	4.29	6.82
Found	58.54	4.21	6.89

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Description:

High affinity negative allosteric modulator of HDAC4 (K_d = 10 - 30 nM). Binds the regulatory Zn^{2+} binding domain of HDAC4. Suppresses hypoxia-induced decrease in histone acetylation in human prostate cancer cells in vitro. Also binds S100A9. Antiangiogenic. Inhibits endothelial sprouting in vitro and growth of prostate tumor xenografts in nude mice. Orally bioavailable.

Physical and Chemical Properties:

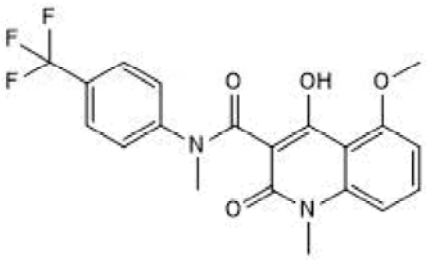
Batch Molecular Formula: $C_{20}H_{17}F_3N_2O_4.¼H_2O$

Batch Molecular Weight: 410.86

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Isaacs *et al* (2014) Anti-cancer potency of Tasquinimod is enhanced via albumin-binding facilitating increased uptake in the tumor microenvironment. Oncotarget ***5*** 8093. PMID: 25193858.

Isaacs *et al* (2013) Tasquinimod is an allosteric modulator of HDAC4 survival signaling within the compromised cancer microenvironment. Cancer Res. ***73*** 1386. PMID: 23149916.